BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ELECTRICAL DIVISION

PRE- MEASUREMENT BOOK

Name of work:- Providing and laying Aerial Bunched Cables/poles/panel boards to Palanahalli road in ward no 5

BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work:- Providing and laying Aerial Bunched Cables/poles/panel boards to Palanahalli road in ward no 5

Name of Contractror of nature of Agency:- M/s, ~~Chowdeshwari Electricals~~ Power MAC

Job Code No:- 005-20-000055

Ref no and Date of commencement of work:-EE(Ele)YZ/WO/000027 / 2020-21 Date:- 29/07/2020

Measurement Book No: 2571/19-20 **Page No:** 25/7038 TO 7039

Bill NO :-

Sl. No.	Description of item		Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15		Per Mtr	1496	140.00	209440.00
2	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR		Per Mtr	1496	10.00	14960.00
1	VE/5/PMR/58/S TO VE/5/PMR/59/S	45MTR				
2	VE/5/PMR/59/S TO VE/5/PMR/60/S	43MTR				
3	VE/5/PMR/59/S TO HT RCC POLE	43 MTR				
4	HT RCC POLE TO VE/5/PMR/61/S	38MTR				
5	VE/5/PMR/61/S TO VE/5/PMR/62/S	40 MTR				
6	VE/5/PMR/62/S TO VE/5/PMR/63/S	38 MTR				
7	VE/5/PMR/63/S TO VE/5/PMR/64/S	38 MTR				
8	VE/5/PMR/64/S TO VE/5/PMR/65/S	38 MTR				
11	VE/5/PMR/65/S TO VE/5/PMR/66/S	38 MTR				
13	VE/5/PMR/66/S TO VE/5/PMR/67/S	40 MTR				
14	VE/5/PMR/67/S TO VE/5/PMR/68/S	40 MTR				
15	VE/5/PMR/68/S TO VE/5/PMR/69/S	40 MTR				
16	VE/05/PMR/23/S TO VE/05/PMR/24/S	40 MTR				
17	VE/05/PMR/24/S TO VE/05/PMR/T520/28	42 MTR				
18	VE/05/PMR/T520/28 TO VE/05/PMR/T520/29	40 MTR				
19	VE/05/PMR/T520/29 TO VE/05/PMR/T520/31	38 MTR				
20	VE/05/PMR/T520/31 TO VE/05/PMR/T520/33	42 MTR				
21	VE/05/PMR/T520/33 TO VE/05/PMR/T520/35	45 MTR				
22	VE/05/PMR/T520/35TO VE/05/PMR/T520/37	40 MTR				
23	VE/05/PMR/T520/37 TO VE/05/PMR/T520/39	40 MTR				
24	VE/05/PMR/T520/39 TO VE/05/PMR/T520/41	40 MTR				
25	VE/05/PMR/T520/41 TO VE/05/PMR/T520/43	42 MTR				
26	VE/05/PMR/T520/43 TO VE/05/PMR/T520/44	40 MTR				
27	VE/05/PMR/T520/44 TO VE/05/PMR/T520/46	40 MTR				
28	VE/05/PMR/T520/46 TO VE/05/PMR/T520/47	40 MTR				
29	VE/05/PMR/T520/47 TO NEW POLE	45 MTR				
30	VE/05/PMR/T520/NEW TO NEW POLE	45 MTR				
31	VE/05/PMR/T520/NEW TO VE/05/PMT/52	42 MTR				
32	VE/05/PMR/T520/52 TO VE/05/PMT/54	42 MTR				
33	VE/05/PMR/T520/54 TO VE/05/PMT/56	42 MTR				
34	VE/05/CMR/06/S to VE/05/CMR/04/S	35 Mtrs				
35	VE/05/CMR/04/S to VE/05/CMR/03/S	35 Mtrs				
36	VE/05/CMR/03/S to VE/05/CMR/01/S	70 Mtrs				
37	Near RMZ Bellahalli under pass RKH Nagara main road (Tubular pole)	90 Mtrs				

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38	Near Bellahalli under pass Bellahalli main road	70 Mtrs				
	Total 1500 Mtrs					
3	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).34/5.11 KPWD ELE SR 2014-15		MT R	1997	30.00	59910.
Near #47/48 Krishna Garden Reva collage road Kattigenahalli (Nagesh house						
1	VE/05/SO/01/00/TC/05/S to VE/05/SO/01/00/TC/04/S	30 Mtrs				
2	VE/05/SO/01/00/TC/04/S to VE/05/SO/01/00/TC/03/S	30 Mtrs				
3	VE/05/SO/01/00/TC/03/S to VE/05/SO/01/00/TC/02/S	30 Mtrs				
4	VE/05/SO/01/00/TC/02/S to VE/05/SO/01/00/TC/01/S	30 Mtrs				
	Total Mtrs	**120 Mtrs**				
1st Cross Main road to cross roads						
1	VE/05/SO/01/00/TC/02/S to VE/05/SO/00/01/TC/01/S	40 Mtrs				
2	VE/05/SO/00/00/TC/01/S to VE/05/SO/00/01/TC/02/CFL	40 Mtrs				
3	VE/05/SO/00/01/TC/02/CFL to VE/05/SO/00/01/TC/03/S	40 Mtrs				
	Total Mtrs	**120 Mtrs**				
2nd Cross Main road to cross roads						
1	VE/05/SO/01/00/TC/04/S to VE/05/SO/00/02/TC/01/LED	35 Mtrs				
2	VE/05/SO/00/02/TC/01/LED to VE/05/SO/00/02/TC/02/LED	35 Mtrs				
3	VE/05/SO/00/02/TC/02/LED to VE/05/SO/00/02/TC/03/LED	35 Mtrs				
	Total Mtrs	**105 Mtrs**				
Near Manju store Thirumenahalli 1st B Cross road						
1	VE/05/T1B/01/00/TC614/10/S to VE/05/T1B/01/00/TC614/12/S	30 Mtrs				
2	VE/05/T1B/01/00/TC614/12/S to VE/05/T1B/01/00/TC614/13/S	60 Mtrs				
3	VE/05/T1B/01/00/TC614/13/S to VE/05/T1B/01/00/TC614/14/S	60 Mtrs				
	Total Mtrs	**150 Mtrs**				
Central Exise L/o 3rd Cross RKH Nagara						
1	VE/05/CL/00/03/TC/03/S to VE/05/CL/00/03/TC/04/S	30 Mtrs				
2	VE/05/CL/00/03/TC/04/S to VE/05/CL/00/03/TC/05/S	30 Mtrs				
3	VE/05/CL/00/03/TC/05/S to VE/05/CL/00/03/TC/06/S	30 Mtrs				
4	VE/05/CL/00/03/TC/06/S to VE/05/CL/00/03/TC/04/S	30 Mtrs				
	Total Mtrs	**120 Mtrs**				
Central Exise L/o 1st Main RKH Nagara						
1	VE/05/CL/01/00/TC/04/S to VE/05/CL/01/00/TC/05/S	30 Mtrs				
2	VE/05/CL/01/00/TC/05/S to VE/05/CL/01/00/TC/06/S	30 Mtrs				
3	VE/05/CL/01/00/TC/06/S to VE/05/CL/01/00/TC/07/S	30 Mtrs				
4	VE/05/CL/01/00/TC/07/S to VE/05/CL/01/00/TC/08/S	30 Mtrs				
5	VE/05/CL/01/00/TC/08/S to VE/05/CL/01/00/TC/09/S	30 Mtrs				
6	VE/05/CL/01/00/TC/09/S to VE/05/CL/01/00/TC/10/CFL	30 Mtrs				
7	VE/05/CL/01/00/TC/10/CFL to VE/05/CL/01/00/TC/11/F	30 Mtrs				

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8	VE/05/CL/01/00/TC/11/F to VE/05/CL/01/00/TC/12/S	30 Mtrs				
	Total Mtrs	**240 Mtrs**				
	Central Exise L/o 4th Cross RKH Nagara					
1	VE/05/CL/00/04/TC/01/S to VE/05/CL/00/04/TC/02/S	76 Mtrs				
2	VE/05/CL/00/04/TC/02/S to VE/05/CL/00/04/TC/03/S	76 Mtrs				
3	VE/05/CL/00/04/TC/03/S to VE/05/CL/00/04/TC/04/S	76 Mtrs				
4	VE/05/CL/00/04/TC/04/S to VE/05/CL/00/04/TC/05/S	80 Mtrs				
5	VE/05/CL/00/04/TC/05/S to VE/05/CL/02/00/TC/06/S	80 Mtrs				
	Total Mtrs	**388 Mtrs**				
	Radian E Iris apartment Sampigehalli main road					
1	VE/05/SMR/TC83/76/S to VE/05/SMR/TC83/77/S	45 Mtrs				
2	VE/05/SMR/TC83/77/S to VE/05/SMR/TC83/78/S	40 Mtrs				
3	VE/05/SMR/TC83/78/S to VE/05/SMR/TC83/79/S	38 Mtrs				
4	VE/05/SMR/TC83/79/S to VE/05/SMR/TC83/80/S	35 Mtrs				
5	VE/05/SMR/TC83/80/S to VE/05/SMR/TC83/81/S	35 Mtrs				
6	VE/05/SMR/TC83/81/S to VE/05/SMR/TC83/82/S	35 Mtrs				
7	VE/05/SMR/TC83/82/S to VE/05/SMR/TC83/83/S	35 Mtrs				
8	VE/05/SMR/TC83/83/S to VE/05/SMR/TC83/84/S	35 Mtrs				
9	VE/05/SMR/TC147/85/S to VE/05/SMR/TC147/86/S	35 Mtrs				
10	VE/05/SMR/TC147/86/S to VE/05/SMR/TC147/87/0	35 Mtrs				
11	VE/05/SMR/TC147/87/0 to VE/05/SMR/TC147/88/S	32 Mtrs				
12	VE/05/SMR/TC147/88/S to VE/05/SMR/TC147/89/0	30 Mtrs				
13	VE/05/SMR/TC147/89/0 to VE/05/SMR/TC147/90/S	30 Mtrs				
14	VE/05/SMR/TC147/90/S to VE/05/SMR/TC147/91/S	30 Mtrs				
15	VE/05/SMR/TC147/91/S to VE/05/SMR/TC147/92/S	30 Mtrs				
16	VE/05/SMR/TC147/92/S to VE/05/SMR/TC147/93/S	30 Mtrs				
17	VE/05/SMR/TC147/93/S to VE/05/SMR/TC147/94/S	35 Mtrs				
18	VE/05/SMR/TC147/94/S to VE/05/SMR/TC147/95/S	35 Mtrs				
19	VE/05/SMR/TC147/95/S to VE/05/KP/00/04/TC147/01/S	45 Mtrs				
	Total Mtrs	**665 Mtrs**				
	Manjunatha L/o Agrahara main road					
1	VE/05/ML/MR/TC/01/S to VE/05/ML/MR/TC/02/S	30 Mtrs				

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2	VE/05/ML/MR/TC/02/S to VE/05/ML/MR/TC/03/S	30 Mtrs				
3	VE/05/ML/MR/TC/03/S to VE/05/ML/MR/TC/04/S	30 Mtrs				
4	VE/05/ML/MR/TC/04/S to VE/05/ML/MR/TC/05/S	30 Mtrs				
	Total Mtrs	**120 Mtrs**				
	2nd Cross Manjunatha L/o					
1	VE/05/ML/MR/TC/03/S to VE/05/ML/00/02/01/S	30 Mtrs				
2	VE/05/ML/00/02/01/S to VE/05/ML/00/02/02/S	30 Mtrs				
3	VE/05/ML/00/02/02/S to VE/05/ML/00/02/03/S	30 Mtrs				
	Total Mtrs	**90 Mtrs**				
	1st Cross Manjunatha L/o					
1	VE/05/ML/MR/TC/02/0 to VE/05/ML/00/01/TC/01/S	30 Mtrs				
2	VE/05/ML/MR/TC/01/S to VE/05/ML/00/01/TC/02/CFL	30 Mtrs				
3	VE/05/ML/00/01/TC/02/CFL to VE/05/ML/00/01/TC/03/CFL	30 Mtrs				
	Total Mtrs	**90 Mtrs**				
	Grand Total 1997 mtrs					
4	1.1 KV Pin Insulator 34/5.9.1 KPWD ELE SR 2014-		Nos	68	40.00	2720.00
5	No. 8 Strain Insulator 33/5.4.3 KPWD ELE SR 2014-		Nos	20	12.00	240.00
6	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.26/5.14.1		Each	52	4500.00	234000.00
7	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm		Each	52	1900.00	98800.00
1	Near # 71, Krishna Garden, Kattigenahalli	New Pole (Nagesh Sir AS BBMP)				
2	Opp Life Style Furnitures 5th Cross, Nethaji road,	VE/05/BMR/TC14/				
3	Near # 74, 5th Main, Nethaji road, Dwarakanagara	VE/05/DN/05/00/TC/11/LED				
4	Opp # 164, 3rd Cross, Nirantara L/o, Bengaluru main road, Kattigenahalli	New Pole				
5	Opp # 99, Lavar Hardware, Car garage Reva collage main road, Kattigenahalli	New Pole				
6	Opp # 18/12, Fast and Force garage Reva collage main road, Kattigenahalli	New Pole				
7	Near # 01, A M Engineering works, Bellahalli main road	VE/05/BMR/TC/180/0				
8	Opp KNS collage, Thirumenahalli, Hegade Nagara main road	VE/05/HMR/TC99/75/0				

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9	Near Amrutha restaurant Chokkanahalli main road	VE/05/CMR/TC/15/0				
10	Near Sri Venkateshwara temple MCECHS L/o SRK Nagara Jakkur	VE/05/M1P/06B/21/TC195/06/S				
11	Near # 1851, 4th Cross, 2nd Phase, MCECHS L/o, SRK Nagara Jakkur	VE/05/M2P/03/00/TC247/03/S				
12	Near # 87, 2nd Main, 12th Cross, Telecom L/o, SRK Nagara Jakkur	VE/05/TL/02/00/TC270/29/S				
13	Near # 492, 11th Cross, Telecom L/o,Jakkur	VE/05/TL/02/00/TC269/26/0				
14	Near Kenny English school Jakkur village	VE/05/J/02/06/TC81/02/SV				
15	Near # 89/17, Grace cottage, Jakkur extension, Jakkur	VE/05/JE/00/04/TC129/02/S				
16	Opp # 889, 11th Cross, MCECHS L/o, 2nd Phase, Dr.SRK Nagara Jakkur	VE/05/M2P/00/11/TC241/04/S				
17	Near # 1577, Balaji bekary, 7th Cross, MCECHS L/o, Dr SRK Nagara Jakkur	VE/05/M2P/02/00/TC238/07/F				
18	Opp # 147, Nandhini milk parlour, 8th Cross, MCECHS L/o, Dr SRK Nagara 1st Phase	VE/05/EFR/TC202/216/F				
19	Near Mayur Nilaya, Basavalingappa Nagara RKH Nagara	VE/05/BN/AMR/TC270/09/0				
20	Near # 279, Madeena Ice Cream Parlour, 4th Cross, Balaji Krupa L/o, RKH Nagara	VE/05/BL/01/TC170/08/S				
21	Near # 434, 1st Main, Balajikrupa L/o, RKH Nagara	VE/05/BL/01/00/TC354/11/0				
22	Near # 01, Parvatamma Nilaya, Kallipalya, Sampigehalli main road, Jakkur	VE/05/SMR/TC147/100/S				
23	Opp Jai Hanuman provision stores, Sampigehalli village	VE/05/SMR/TC86/49/S				
24	Opp Lakshmi Tailors, Agrahara village Kogilu	VE/05/AMR/TC314/75/S				
25	Opp # 01, V S Stores, Muneshwara L/o, Agrahara main road	VE/05/AMR/TC318/59/S				
26	Manjunatha L/o, 2nd Cross entrance pole, Agrahara main road	VE/05/ML/MR/00/02/TC/01/S				
27	Opp Sri Sapthgiri chicken center Palanahalli village	VE/05/PMR/TC287/79/S				
28	Near # 14, Krishnanagara, Kogilu main road	VE/05/KN/01/00/TC63/08/S				
29	Near Sri Rama stores, 3rd Cross, Vinayaka L/o, Bagaluru main road	VE/05/VN/03/00/TC/16/S				
30	5th Cross entrance pole, Agrahara L/o, Kogilu	VE/05/AL/03/00/TC04/18/S				
31	Near # 143, Shivakrupa, 6th Cross, Vinayaka L/o, Bagaluru main road	VE/05/VN/06/00/TC308/13/S				
32	Near Lions club, 3rd Cross, Agrahara L/o, Kogilu	VE/05/AL/03/00/TC208/07/0				
33	Near # 94, Sri Simhadri Nilaya 7th Cross, Vinayaka L/o, Benagaluru main road	VE/05/VN/07/00/TC/01/S				
34	Opp # 184, Sri Jayalakshmi fabrication muneshwara nagara kattigenahalli	VE/05/MN/01/00/TC/01/S				

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35	Opp # 19, Gangamma devi Nilaya, 1st main, Shivapura Bengaluru main road	New Pole				
36	Near L H Residency, 5th A Cross, Shivapura, Bagaluru main road	VE/05/SP/05/00/TC32/17/F				
37	Near # 03, Yadhunandana Nilaya, 3rd Cross, Shivapura Bengaluru main road	VE/05/SP/03/00/TC38/01/S				
38	Near Ashwathkatte Kattigenahalli village Palanahalli main road	VE/05/PMR/00/07/S				
39	K T Muni Anjaneya L/o main road Kattigenahalli	VE/05/KMR/TC520/55/S				
40	Opp # 88, Kalidas L/o, 2nd Cross, Kattigenahalli	VE/05/KL/00/02/TC/10/0				
41	Opp # 41, Kalidasa L/o, 3rd Cross, Kattigenahalli	VE/05/KL/01/00/TC/14/S				
42	Kalidasa L/o, 1st Cross entrance pole, Kattigenahalli	New Pole				
43	Opp Bhagath enclave main road, Kattigenahalli	VE/05/BE/01/00/TC/02/S				
44	BSF main road, Nisarga L/o, Kattigenahlli	VE/05/ST/SR/TC307/10/S				
45	Opp # 177, 4th Main, Nirantara L/o, Bagaluru main road	VE/05/NL/01/00/TC534/03/S				
46	5th Cross entrance pole, Nirantara L/o, Bengaluru main road	VE/05/NL/00/05/TC534/10/F				
47	1st Cross entrance pole, Nirantara L/o, Bagaluru main road	VE/05/NL/00/01/TC534/01/S				
48	Near # 70, 1st Main, Central exsise L/o, RKH Nagara	VE/05/CL/01/00/TC/04/S				
49	Opp # 129, Nanda Gokula krupa, 1st Cross,Central exsise L/o, RKH Nagara	VE/05/CL/00/01/TC/04/S				
50	Near SLV Grand apartment, 4th Cross, Central exsise L/o, RKH Nagara	VE/05/CL/00/01/TC/01/S				
51	Near Kidzee Balaji L/o, Kogilu main road	VE/05/BL/00/01/TC400/05/S				
52	Kudre Farm road, Agrahara Vidhanasoudha L/o (Gajendra)	New Pole				
8	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm40/6.4.4		Mtrs	97	140.00	13580.00
9	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm41/6.5.1		Mtrs	93	30.00	2790.00
10	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.41/6.6.1		Mtrs	60	76.00	4560.00
11	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3		Mtrs	40	60.00	2400.00

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12	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5)Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure. 7) transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.		No	2	50000.00	100000.00
1	Near Hllo block cement factory, Bellahalli main road	New Pole Box No 0157				
2	Near # 63/2/3, Sofia public school Tippunagara RKH Nagara main road	VE/05/HMR/TC/02 /0 Box No 0158				
	Total Rs					**743400.00**
	Add GST Item No 06 to 11 Rs 356130.00 @ 12%					42735.60
	Total Rs					**786135.60**

ERTIFICATE:

1.This is certify that the work done is saticefactorily.
2.This is certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division